Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L44	5	345/600.ccls. and (multi adj3 primary adj3 display)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:11
L43	6	345/600.ccls. and ((color adj space) and (four adj3 primary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:11
L42	0	345/600.ccls. and WYV	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/07/13 13:10
L41	476	345/600.ccls.	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/07/13 13:10
L40	77	(color adj gamut) and (four adj (primary or primaries))	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/07/13 13:10
L38	8	382/162.ccls. and ((color adj space) and (four adj3 primary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:10
L14	2	345/589.ccls. and (multi adj3 primary adj3 display)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:10
S41	67	(color adj gamut) and (four adj (primary or primaries))	US-PGPUB; USPAT; DERWENT	OR	OFF	2005/07/13 13:08
L39	0	382/162.ccls. and (WYV)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:07
L37	1036	382/162.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:07
L34	11	382/167.ccls. and ((color adj space) and (four adj3 primary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:07

L33	1	382/167.ccls. and (WYV)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:07
L31	1011	382/167.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:07
S38	25	345/590.ccls. and (wide or widen or widening)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:06
L36	27	345/590.ccls. and (wide or widen or widening)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:06
L35	84	(color adj3 space) and (gamut near5 (clipp$3 or adjust$4)) and (vector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:06
L32	2	345/601.ccls. and ((color adj space) and (four adj3 primary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:06
S37	78	(color adj3 space) and (gamut near5 (clipp$3 or adjust$4)) and (vector)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:05
S36	11	382/167.ccls. and ((color adj space) and (four adj3 primary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:05
S35	2	345/601.ccls. and ((color adj space) and (four adj3 primary))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:05
S31	1	382/167.ccls. and (WYV)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:05

S28	0	345/601.ccls. and (WYV)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:05
S27	920	382/167.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 13:04
L28	84	"382"/$.ccls. and (gamut with match$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 12:09
L27	65	"345"/$.ccls. and (gamut with match$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 12:09
L30	11	"382"/$.ccls. and (gamut near7 gain$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 12:08
L29	4	"345"/$.ccls. and (gamut near7 gain$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 12:07
L21	197	345/604.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 12:06
S22	177	345/604.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:58
L25	4	(L21 or L23) and (wide with gamut)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:56
L24	0	345/601.ccls. and (WYV)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:56

S23	0	345/604.ccls. and (WYV)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:55
S21	219	345/601.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:55
L23	228	345/601.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:55
L22	0	345/604.ccls. and (WYV)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:55
S14	115	345/591.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:53
L20	124	345/591.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:53
S11	99	345/590.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:50
L19	109	345/590.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:50
S20	12	345/589.ccls. and (gamut near5 wid$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:49
S19	3	345/589.ccls. and (w near3 y near3 v)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:49

S18	0	345/589.ccls. and (WYV)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:49
L18	13	345/589.ccls. and (gamut near5 wid$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:49
L17	3	345/589.ccls. and (w near3 y near3 v)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:49
L16	0	345/589.ccls. and (WYV)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:49
L15	0	("2005/0031199").URPN.	USPAT	OR	OFF	2005/07/13 11:47
L13	11	345/589.ccls. and (four adj3 primary) and (convert$3 or convers$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:45
L12	7	345/589.ccls. and (four adj3 primary) and (color adj gamut)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:45
S15	2	345/589.ccls. and (multi adj3 primary adj3 display)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:36
S13	8	345/589.ccls. and (four adj3 primary) and (convert$3 or convers$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:36
S12	4	345/589.ccls. and (four adj3 primary) and (color adj gamut)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:36
S9	34	345/589.ccls. and (convert$3 or convers$3) and (color adj gamut)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:36

L11	42	345/589.ccls. and (convert$3 or convers$3) and (color adj gamut)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:36
S8	970	345/589.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:35
S6	2478	MPD or (multi adj3 primary adj3 display)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:35
L10	1045	345/589.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/07/13 11:35
L9	2	L7 and WYV	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:35
L7	2626	MPD or (multi adj3 primary adj3 display)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:35
L6	6	(WYV same (color))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:34
L5	5	(WYV same (space or signal))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:34
S5	3	(WYV near3 (color))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:33
S3	4	(WYV near3 (space or signal))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:33

L4	4	(WYV near3 (space or signal))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:33
L3	3	(WYV near3 (color))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:33
S2	25	kim-moon-cheol.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:32
S1	2	shin-yoon-cheol.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:32
L2	27	kim-moon-cheol.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:32
L1	2	shin-yoon-cheol.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/13 11:32
S40	2	S38 and (five near3 color)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/03/02 08:08
S39	6	S38 and (four near3 color)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/03/02 08:06
S32	9	382/167.ccls. and ((temporary or temp) near7 (space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/03/01 14:08
S29	0	345/601.ccls. and ((temporary or temp) near7 (space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/03/01 14:05

S30	7	345/601.ccls. and (intermediate near7 space)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/03/01 14:02
S26	18	345/604.ccls. and (intermediate near7 space)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/03/01 14:02
S24	3	345/604.ccls. and ((temporary or temp) near7 (space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/03/01 14:02
S25	21	345/604.ccls. and (multipl$7 near7 space)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/03/01 08:10
S17	0	"60332058"	USPAT	OR	OFF	2005/02/25 12:09
S16	0	("2005/0031199").URPN.	USPAT	OR	OFF	2005/02/25 12:08
S7	28	(multi adj3 primary adj3 display)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/02/24 14:12

RESULT LIST
1 result found in the Worldwide database for:
WYV AND color in the title or abstract
(Results are sorted by date of upload in database)

1 **Color conversion apparatus and method thereof**

Inventor: SHIN YOON-CHEOL (KR); KIM MOON-CHEOL **Applicant:** SAMSUNG ELECTRONICS CO LTD (US) (KR)

EC: G09G5/06 **IPC:** G09G5/02

Publication info: **US2004233218** - 2004-11-25

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
9 results found in the Worldwide database for:
gamut AND adjust AND color in the title or abstract
(Results are sorted by date of upload in database)

1 **DEVICE AND METHOD FOR ADJUSTING COLOR SPACE VALUE CORRESPONDENCE RELATION, PROGRAM AND RECORDING MEDIUM**

Inventor: TOMITA MASAMI
Applicant: CANON I TECH INC
EC:
IPC: G06T11/60; G06T1/00; (+2)
Publication info: **JP2003030671** - 2003-01-31

2 **System and method for scan-to- print architecture**

Inventor: MOORE JOHN A (US); RAHGOZAR M ARMON (US); (+1)
Applicant: XEROX CORP (US)
EC: H04N1/333B; H04N1/60F
IPC: B41J1/00; B41B1/00
Publication info: **US2002109870** - 2002-08-15

3 **COLOR IMAGE PROCESSING METHOD AND APPARATUS UTILIZING THE SAME**

Inventor: OHTA KEN-ICHI (JP)
Applicant:
EC: H04N1/60; H04N1/60G
IPC: H04N1/60; H04N1/50; (+1)
Publication info: **US2001035966** - 2001-11-01

4 **Constructing device-state tables for inkjet printing**

Inventor: BOCKMAN FRANCIS E (US); LI GUO (US)
Applicant: HEWLETT PACKARD CO (US)
EC: G06K15/10B; H04N1/52
IPC: G06K15/00
Publication info: **US6178008** - 2001-01-23

5 **Color image processing method and apparatus utilizing the same**

Inventor: OHTA KEN-ICHI (JP)
Applicant: CANON KK (JP)
EC: H04N1/60; H04N1/60G
IPC: H04N1/40
Publication info: **US5801855** - 1998-09-01

6 **Gamut restriction of color image**

Inventor: ALDRICH RONALD KEITH (US)
Applicant: SOFTWARE ARCHITECTS INC (US)
EC: G06T11/00C
IPC: G06T11/40
Publication info: **US6154217** - 2000-11-28

7 **System for creating a device specific colour profile**

Inventor: SCHWARTZ MICHAEL (US)
Applicant: EASTMAN KODAK CO (US)
EC: H04N1/60F2
IPC: H04N1/60
Publication info: **EP0785672** - 1997-07-23

8 **Color image processing method and apparatus utilizing the same**

Inventor: OHTA KEN-ICHI CANON KABUSHIKI (JP)
Applicant: CANON KK (JP)
EC: H04N1/60G
IPC: H04N1/60
Publication info: **EP0675638** - 1995-10-04

9 **Color processing system**

Inventor: DALRYMPLE JOHN C (US); WELBORN PATRICK E (US); (+1)
Applicant: TEKTRONIX INC (US)
EC: H04N1/60D3; H04N1/60F; (+1)
IPC: H04N1/46
Publication info: **US5243414** - 1993-09-07

Data supplied from the ***esp@cenet*** database - Worldwide

RESULT LIST
16 results found in the Worldwide database for:
gamut AND match AND color in the title or abstract
(Results are sorted by date of upload in database)

1 **System and method for selecting the best set of devices for rendering color documents**
Inventor: BALA RAJA (US); SHARMA GAURAV (US); (+1)
Applicant: XEROX CORP (US)
EC:
IPC: H04N1/50; H04N1/56; (+1)
Publication info: **US2005036171** - 2005-02-17

2 **Color converting apparatus and method thereof**
Inventor: KIM MOON-CHEOL (KR)
Applicant: SAMSUNG ELECTRONICS CO LTD (US)
EC:
IPC: H04N1/60
Publication info: **US2004239971** - 2004-12-02

3 **Color conversion apparatus and method thereof**
Inventor: SHIN YOON-CHEOL (KR); KIM MOON-CHEOL (KR)
Applicant: SAMSUNG ELECTRONICS CO LTD (US)
EC: G09G5/06
IPC: G09G5/02
Publication info: **US2004233218** - 2004-11-25

4 **COLOR REPRODUCTION SYSTEM**
Inventor: OHSAWA KENRO (JP); YAMAGUCHI MASAHIRO (JP); (+1)
Applicant: TELECOMM ADVANCEMENT ORG JAPAN (JP); OLYMPUS CORP (JP)
EC: H04N1/46
IPC: G06T1/00; H04N1/46; (+4)
Publication info: **EP1450302** - 2004-08-25

5 **Method and device for determining the color appearance of color overprints**
Inventor: VAN DE CAPELLE JEAN-PIERRE (US); SUNDERMANN ERIK (BE); (+2)
Applicant:
EC: G01N33/32
IPC: G06G7/48; G06G7/58; (+2)
Publication info: **US2002193956** - 2002-12-19

6 **COLOR CROSS REFERENCE SELECTION SYSTEM AND METHOD**
Inventor: WOZNIAK TERRY (US); MANGAN JOSEPH (US); (+1)
Applicant: SCITEX DIGITAL PRINTING INC (US)
EC: H04N1/60G
IPC: G06K15/00; G06K15/02
Publication info: **CA2367621** - 2002-08-01

7 **Color correction method and color correction program to obtain desired output image**
Inventor: DEISHI SATOSHI (JP); HAYAKAWA MASAHIRO (JP); (+4)
Applicant:
EC: H04N1/60G
IPC: G09G5/02
Publication info: **US2002000993** - 2002-01-03

8 **COLOR IMAGE FORMING DEVICE**
Inventor: KYO GUN
Applicant: RICOH KK
EC:
IPC: H04N1/60; B41J2/525; (+4)
Publication info: **JP2002290757** - 2002-10-04

9 **METHOD FOR EXPRESSING DIGITAL IMAGE IN EXTENDED COLOR REPRODUCTION AREA (GAMUT) ON OUTPUT MEDIUM OF HARD COPY**
Inventor: BRYANT ROBERT C; SPAULDING KEVIN E; (+1)
Applicant: EASTMAN KODAK CO
EC: H04N1/60G
IPC: H04N1/60; B41J2/525; (+4)
Publication info: **JP2001320599** - 2001-11-16

10 **System and method for scan-to- print architecture**
Inventor: MOORE JOHN A (US); RAHGOZAR M ARMON (US); (+1)
Applicant: XEROX CORP (US)
EC: H04N1/333B; H04N1/60F
IPC: B41J1/00; B41B1/00
Publication info: **US2002109870** - 2002-08-15

RESULT LIST
Approximately **165** results found in the Worldwide database for:
multi AND primary AND display in the title or abstract
(Results are sorted by date of upload in database)

1 Multi-primary liquid crystal display
Inventor: ROTH SHMUEL (IL); BEN-CHORIN MOSHE (IL); (+1)
Applicant:
EC:
IPC: G02F1/1343; G02F1/1335
Publication info: **US2005134785** - 2005-06-23

2 MULTI-PRIMARY LIQUID CRYSTAL DISPLAY
Inventor: ROTH SHMUEL (IL); BEN-CHORIN MOSHE (IL); (+1)
Applicant: GENOA COLOR TECHNOLOGIES LTD (IL); ROTH SHMUEL (IL); (+2)
EC:
IPC: G09G
Publication info: **WO2005057532** - 2005-06-23

3 Color filters and sequencers using color-selective light modulators
Inventor: SHARP GARY D (US)
Applicant: COLORLINK INC
EC: G02B27/28F; G02F1/01P; (+5)
IPC: G02F1/1335
Publication info: **US2005122454** - 2005-06-09

4 Coating composition, coating film thereof, antireflection coating, antireflection film, image display, and intermediate product
Inventor: YOSHIHARA TOSHIO (JP); SHINOHARA SEIJI (JP); (+2)
Applicant: DAINIPPON PRINTING CO LTD (JP)
EC:
IPC: C09D4/00; C09D5/00; (+3)
Publication info: **TW225511B** - 2004-12-21

5 Optical projection apparatus, transmission type screen, and projection type image display apparatus
Inventor: HIRATA KOJI (JP); OGURA NAOYUKI (JP); (+2)
Applicant:
EC: G02B13/16; G03B21/10; (+2)
IPC: H04N5/74
Publication info: **US2005088576** - 2005-04-28

6 Color filters and sequencers using color selective light modulators
Inventor: SHARP GARY D (US)
Applicant: COLORLINK INC (US)
EC: G02F1/01P; G02F1/13357; (+5)
IPC: G02G1/1347
Publication info: **US6882384** - 2005-04-19

7 An Improved Apparatus for Displaying Advertisements, Signs, Notices, Outline Moving Pictures or the iike, or for Communicating Messages or Signaling both during Light and Darkness
Inventor:
Applicant: NAYLORGRAPH LTD (GB); JAMES PRIESTNALL NAYLOR (GB)
EC: G09G3/00C
IPC:
Publication info: **GB191511560** - 1916-11-10

8 Thin film transistor liquid crystal display with locality multi-domain perpendicular direction matching mode
Inventor: LIN JINGHUAN (CN); ZHANG ZHIMING (CN); (+1)
Applicant: AU OPTRONICS CORP (CN)
EC:
IPC: G02F1/1333; G02F1/1343; (+1)
Publication info: **CN1544979** - 2004-11-10

9 SPOKE RECOVERY IN A COLOR DISPLAY
Inventor: ROTH SHMUEL (IL); BEN-CHORIN MOSHE (IL)
Applicant: GENOA COLOR TECHNOLOGIES LTD (IL); ROTH SHMUEL (IL); (+1)
EC:
IPC: G02F
Publication info: **WO2005019909** - 2005-03-03

10 CORRECTION DATA ACQUISITION METHOD FOR IMAGE DISPLAY DEVICE, AND CALIBRATION SYSTEM
Inventor: AJITO TAKEYUKI
Applicant: OLYMPUS CORP
EC:
IPC: H04N9/31; G03B21/00; (+4)
Publication info: **JP2005020581** - 2005-01-20

RESULT LIST
5 results found in the Worldwide database for:
multi AND primary AND display AND gamut in the title or abstract
(Results are sorted by date of upload in database)

1 **Color signal processing apparatus and method for reproducing colors on MPD**
Inventor: LEE SANG-JIN (KR); KIM MOON-CHEOL (KR) **Applicant:** SAMSUNG ELECTRONICS CO LTD (US)
EC: **IPC:** G09G5/02
Publication info: **US2004252130** - 2004-12-16

2 **Color conversion apparatus and method thereof**
Inventor: SHIN YOON-CHEOL (KR); KIM MOON-CHEOL (KR) **Applicant:** SAMSUNG ELECTRONICS CO LTD (US)
EC: G09G5/06 **IPC:** G09G5/02
Publication info: **US2004233218** - 2004-11-25

3 **Processing colour image signals to derive display control signals for a display device having four or more primaries**
Inventor: KIM MOON-CHEOL (KR) **Applicant:** SAMSUNG ELECTRONICS CO LTD (KR)
EC: G09G3/20; G09G5/02; (+2) **IPC:** H04N9/64; H04N11/00
Publication info: **GB2390773** - 2004-01-14

4 **DEVICE AND METHOD FOR DESIGNING DISPLAY PRIMARY COLOR**
Inventor: KANAMORI KATSUHIRO **Applicant:** MATSUSHITA ELECTRIC IND CO LTD
EC: **IPC:** H04N17/02; G06T1/00; (+3)
Publication info: **JP2004166045** - 2004-06-10

5 **ELECTRONIC COLOR CHART DEVICE**
Inventor: ISHII JUNICHIRO; AJITO TAKEYUKI; (+4) **Applicant:** KURASHIKI BOSEKI KK
EC: **IPC:** H04N1/46; G01J3/52; (+1)
Publication info: **JP2002199231** - 2002-07-12

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1 **A technique for generating additional colors in a halftone color image through use of overlaid primary colored halftone dots of varying size**

Inventor: BARRY ROBERT VANSELOW (US); AMBRO JOSEPH HAYES (US)

Applicant: EASTMAN KODAK CO (US)

EC: H04N1/40F; H04N1/52

IPC: H04N1/46

Publication info: **EP0533593** - 1993-03-24

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1 **Color conversion apparatus and method thereof**
Inventor: SHIN YOON-CHEOL (KR); KIM MOON-CHEOL (KR) **Applicant:** SAMSUNG ELECTRONICS CO LTD (US)
EC: G09G5/06 **IPC:** G09G5/02
Publication info: **US2004233218** - 2004-11-25

2 **IMAGE PROCESSING APPARATUS AND METHOD, AND RECORDING MEDIUM**
Inventor: TAKAHASHI KOSEI; YAMADA OSAMU **Applicant:** CANON KK
EC: **IPC:** H04N1/46; B41J2/21; (+5)
Publication info: **JP2004064544** - 2004-02-26

3 **Method of and system for predicting reproduced color image**
Inventor: OHTSUKA SHUICHI (JP); YODA AKIRA (JP); (+1) **Applicant:** FUJI PHOTO FILM CO LTD (JP)
EC: H04N1/60B; H04N1/60F **IPC:** G03F3/10
Publication info: **US5748858** - 1998-05-05

4 **Method of and system for predicting a colour reproduction image**
Inventor: OHTSUKA SHUICHI C O FUJI PHOTO (JP); YODA AKIRA C O FUJI PHOTO FILM (JP); (+1) **Applicant:** FUJI PHOTO FILM CO LTD (JP)
EC: H04N1/60B; H04N1/60F **IPC:** H04N1/60
Publication info: **EP0653879** - 1995-05-17

5 **A technique for generating additional colors in a halftone color image through use of overlaid primary colored halftone dots of varying size**
Inventor: BARRY ROBERT VANSELOW (US); AMBRO JOSEPH HAYES (US) **Applicant:** EASTMAN KODAK CO (US)
EC: H04N1/40F; H04N1/52 **IPC:** H04N1/46
Publication info: **EP0533593** - 1993-03-24

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Applicant,Title of invention,Abstract — e.g. computer semiconductor

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WYV color AND

AND

AND

AND

AND

Date of publication of application — e.g.19980401 - 19980405

-

AND

IPC — e.g. D01B7/04 A01C11/02

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gamut adjust color AND

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AND

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1.	2005 - 039167	LIGHT-EMITTING SEMICONDUCTOR DEVICE HAVING BUILT-IN DRIVE INTEGRATED CIRCUIT CHIP
2.	2005 - 018695	COLOR PROCESSOR AND METHOD
3.	2004 - 361550	SILVER HALIDE COLOR PHOTOSENSITIVE MATERIAL FOR SCANNING EXPOSURE AND AREA COVERAGE MODULATION IMAGE FORMING METHOD
4.	2004 - 280108	ORGANIC LIGHT EMITTING DIODE (OLED) DISPLAY SYSTEM
5.	2004 - 112548	APPARATUS, METHOD, AND PROGRAM FOR IMAGE PROCESSING
6.	2003 - 153025	IMAGE INFORMATION TRANSFERRING METHOD AND IMAGE INFORMATION PROCESSOR
7.	2003 - 122292	PICTURE DISPLAY SYSTEM AND RECORDING MEDIUM
8.	2003 - 050693	METHOD AND SYSTEM FOR ADJUSTING COLOR GAMUT BASED ON CONSUMABLE CONDITION
9.	2003 - 030671	DEVICE AND METHOD FOR ADJUSTING COLOR SPACE VALUE CORRESPONDENCE RELATION, PROGRAM AND RECORDING MEDIUM
10.	2001 - 320599	METHOD FOR EXPRESSING DIGITAL IMAGE IN EXTENDED COLOR REPRODUCTION AREA (GAMUT) ON OUTPUT MEDIUM OF HARD COPY
11.	2001 - 197326	METHOD AND DEVICE FOR COLOR GAMUT MAPPING USING LOCAL AREA INFORMATION
12.	2000 - 350050	IN-GAMUT IMAGE REPRODUCTION METHOD USING SPATIAL COMPARISON
13.	08 - 079545(1996)	IMAGE MAPPING METHOD, IMAGE DISPLAY SYSTEM, AND IMAGE PRINTING SYSTEM

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gamut match color AND

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AND

Date of publication of application — e.g.19980401 - 19980405

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2.	2005 - 018171	COLOR REGION PRODUCTION PROGRAM
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4.	2004 - 153340	IMAGE PROCESSING APPARATUS
5.	2004 - 153336	IMAGE PROCESSING APPARATUS
6.	2004 - 064668	IMAGE PROCESSING APPARATUS, IMAGE PROCESSING METHOD, AND PROGRAM
7.	2003 - 338938	METHOD, APPARATUS AND PROGRAM FOR IMAGE PROCESSING
8.	2003 - 334934	DEVICE AND METHOD FOR CONTROLLING FORMING OF IMAGE, AND IMAGE FORMING CONTROL PROGRAM
9.	2003 - 169224	METHOD FOR CALCULATING COLOR GAMUT OF COLOR MATERIAL, METHOD FOR DISCRIMINATING COLOR REPRODUCTION, METHOD FOR CALCULATING COLOR MATERIAL BLENDING RATIO, APPARATUS FOR CALCULATING COLOR GAMUT OF COLOR MATERIAL, APPARATUS FOR DISCRIMINATING COLOR REPRODUCTION, AND APPARATUS FOR CALCULATING COLOR MATERIAL BLENDING RATIO
10.	2003 - 030671	DEVICE AND METHOD FOR ADJUSTING COLOR SPACE VALUE CORRESPONDENCE RELATION, PROGRAM AND RECORDING MEDIUM
11.	2003 - 018611	IMAGING APPARATUS
12.	2002 - 365133	METHOD AND DEVICE FOR CALCULATING COLOR GAMUT OF COLORING MATERIAL, METHOD AND DEVICE FOR DETERMINING COLOR REGENERATION, AND METHOD AND DEVICE FOR CALCULATING BLENDING RATIO OF COLORING MATERIAL
13.	2002 - 290757	COLOR IMAGE FORMING DEVICE
14.	2002 - 262120	IMAGE PROCESSOR, IMAGE PROCESSING METHOD, COLOR CONVERSION TABLE GENERATING METHOD AND RECORDING MEDIUM
15.	2002 - 209229	IMAGE DISPLAY SYSTEM ADAPTIVE TO ENVIRONMENT, IMAGE PROCESSING METHOD, PROGRAM AND INFORMATION STORAGE MEDIUM
16.	2001 - 326827	COLOR MATCHING METHOD AND COMPUTER READABLE RECORDING MEDIUM FOR RECORDING COLOR MATCHING PROGRAM
17.	2001 - 326826	COLOR MATCHING METHOD AND COMPUTER READABLE RECORDING MEDIUM FOR RECORDING COLOR MATCHING PROGRAM
18.	2001 - 320599	METHOD FOR EXPRESSING DIGITAL IMAGE IN EXTENDED COLOR REPRODUCTION AREA (GAMUT) ON OUTPUT MEDIUM OF HARD COPY
19.	2001 - 238091	DEVICE AND METHOD FOR COMPRESSING NONLINEAR COLOR GAMUT

WIDTH USING MULTIPLE CONVERGENT POINT

20. 2000 - 354171 COLOR GAMUT COMPRESSOR AND COLOR GAMUT COMPRESSION METHOD
21. 2000 - 324350 COLOR CONVERTER
22. 09 - 284576(1997) METHOD AND DEVICE FOR GENERATING LOOKUP TABLE
23. 08 - 214175(1996) IMAGE PROCESSING METHOD
24. 08 - 056289(1996) METHOD FOR REPRODUCING COLOR IMAGE THROUGH COLOR OUTPUT DEVICE
25. 06 - 233129(1994) COLOR PRINTING METHOD COMPENSATING ABNEY EFFECT AND DEVICE THEREFOR
26. 06 - 180248(1994) EVALUATION TECHNIQUE OF COLOR RENDERING PROPERTIES

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WYV AND

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AND

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gamut match color AND

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four primary AND

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gamut match color AND

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multi primary AND

AND

AND

AND

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multi primary display AND

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multi primary display AND

AND

WYV AND

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Applicant,Title of invention,Abstract --- e.g. computer semiconductor

If you use the AND/OR operation, please leave a SPACE between keywords.

One letter word or Stopwords are not searchable.

multi primary display AND

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gamut AND

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AND

AND

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AND

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1.	2004 - 166045	DEVICE AND METHOD FOR DESIGNING DISPLAY PRIMARY COLOR
2.	2003 - 208152	COLOR SIGNAL PROCESSING DEVICE FOR MULTI-PRIMARY COLOR DISPLAY AND METHOD THEREOF
3.	2002 - 199231	ELECTRONIC COLOR CHART DEVICE

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Applicant,Title of invention,Abstract — e.g. computer semiconductor

If you use the AND/OR operation, please leave a SPACE between keywords.

One letter word or Stopwords are not searchable.

gamut gain color AND

AND

wide widen extend AND

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gamut gain color AND

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1.	2004 - 064544	IMAGE PROCESSING APPARATUS AND METHOD, AND RECORDING MEDIUM

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Relevance scale

1 Color consistency for digital multi-projector stereo display systems: the HEyeWall and the Digital CAVE

W. Kresse, D. Reiners, C. Knöpfle

May 2003 **Proceedings of the workshop on Virtual environments 2003 EGVE '03**

Full text available: pdf(16.19 MB) Additional Information: full citation, abstract, references, index terms

Digital projectors have a significant advantage over CRTs for IPT setups: brightness. But they also have a number of disadvantages, one of which is color consistency. This problem is exacerbated when using the Infitec method for stereo separation, which in itself has some strong advantages for CAVE and tiled wall setups. In this paper we will describe a method for color and brightness correction of multi-projector display systems. The method itself is used in two new projection systems, which ar ...

2 Introducing scribus

Peter Linnell

November 2003 **Linux Journal**, Volume 2003 Issue 115

Full text available: html(30.56 KB) Additional Information: full citation, abstract

Take desktop publishing off the shrinking list ofapplications Linux doesn't have, and create press-ready documents witha new GPL program.

3 Color gamut mapping and the printing of digital color images

Maureen C. Stone, William B. Cowan, John C. Beatty

October 1988 **ACM Transactions on Graphics (TOG)**, Volume 7 Issue 4

Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Principles and techniques useful for calibrated color reproduction are defined. These results are derived from a project to take digital images designed on a variety of different color monitors and accurately reproduce them in a journal using digital offset printing. Most of the images printed were reproduced without access to the image as viewed in its original form; the color specification was derived entirely from calorimetric specification. The techniques described here are not specific ...

4 Perceptual color spaces for computer graphics

Gary W. Meyer, Donald P. Greenberg

July 1980 **ACM SIGGRAPH Computer Graphics , Proceedings of the 7th annual conference on Computer graphics and interactive techniques**, Volume 14 Issue 3

Full text available: pdf(991.09 KB) Additional Information: full citation, abstract, references, citings, index terms

Perceptually uniform color spaces can be a useful tool for solving computer graphics color selection problems. However, before they can be used effectively some basic principles of tristimulus colorimetry must be understood and the color reproduction device on which they

are to be used must be properly adjusted. The Munsell Book of Color and the Optical Society of America (OSA) Uniform Color Scale are two uniform color spaces which provide a useful way of organizing the colors of a digitall ...

Keywords: Color, Color science, Color television, Colorimetry, Computer graphics, False color, Pseudo color, Uniform color spaces

5 Reproducing color images as duotones

Joanna L. Power, Brad S. West, Eric J. Stollnitz, David H. Salesin

August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**

Full text available: pdf(2.74 MB) Additional Information: full citation, references, citings, index terms

Keywords: Neugebauer model, color printing, color reproduction, duotone, gamut mapping

6 Device-directed rendering

Andrew S. Glassner, Kenneth P. Fishkin, David H. Marimont, Maureen C. Stone

January 1995 **ACM Transactions on Graphics (TOG)**, Volume 14 Issue 1

Full text available: pdf(4.67 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Rendering systems can produce images that include the entire range of visible colors. Imaging hardware, however, can reproduce only a subset of these colors: the device gamut. An image can only be correctly displayed if all of its colors lie inside of the gamut of the target device. Current solutions to this problem are either to correct the scene colors by hand, or to apply gamut mapping techniques to the final image. We propose a methodology called device-directed rendering

Keywords: constrained color selection, device-independent color, inverse problems

7 Achieving color uniformity across multi-projector displays

Aditi Majumder, Zhu He, Herman Towles, Greg Welch

October 2000 **Proceedings of the conference on Visualization '00**

Full text available: pdf(181.02 KB) Additional Information: full citation, citings, index terms

Keywords: color calibration, large area display, projector graphics, tiled displays

8 Getting it off the screen and onto paper (panel session): current accomplishments and future goals

Gary W. Meyer, Ricardo J. Motta, Joann Taylor, Maureen C. Stone

August 1990 **ACM SIGGRAPH 90 Panel Proceedings**

Full text available: pdf(11.43 MB) Additional Information: full citation, index terms

9 The RGYB color geometry

Colin Ware, William Cowan

April 1990 **ACM Transactions on Graphics (TOG)**, Volume 9 Issue 2

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

Background:The gamut of a color CRT is defined by its three primary colors, each produced by a phosphor/electron gun combination. Light from the primaries combines additively, so the color gamut is a subset of a three dimensional vector space [1]. With the primaries as

basis vectors normalized to 1.0, the color gamut is a unit cube, known as the RGB color geometry, since the three primaries are usually red, green, and blue. User interaction via RGB is generally thought to be counterin ...

10 Rendering II: Subband encoding of high dynamic range imagery

Greg Ward, Maryann Simmons

August 2004 **Proceedings of the 1st Symposium on Applied perception in graphics and visualization**

Full text available: pdf(1.14 MB) Additional Information: full citation, abstract, references, index terms

The transition from traditional 24-bit RGB to high dynamic range (HDR) images is hindered by excessively large file formats with no backwards compatibility. In this paper, we propose a simple approach to HDR encoding that parallels the evolution of color television from its grayscale beginnings. A tone-mapped version of each HDR original is accompanied by restorative information carried in a subband of a standard 24-bit RGB format. This subband contains a compressed *ratio image*, which whe ...

Keywords: high dynamic range image formats, image processing, lossy compression

11 Reproducing color images using custom inks

Eric J. Stollnitz, Victor Ostromoukhov, David H. Salesin

July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(217.32 KB) Additional Information: full citation, references, citings, index terms

Keywords: Kubelka-Munk model, Neugebauer model, color printing, color reproduction, gamut mapping, ink selection, separations

12 Model and representation: the effect of visual feedback on human performance in a color picker interface

Sarah A. Douglas, Arthur E. Kirkpatrick

April 1999 **ACM Transactions on Graphics (TOG)**, Volume 18 Issue 2

Full text available: pdf(516.54 KB) Additional Information: full citation, abstract, references, index terms, review

User interfaces for color selection consist of a visible screen representation, an input method, and the underlying conceptual organization of the color model. We report a two-way factorial, between-subjects variable experiment that tested the effect of high and low visual feedback interfaces on speed and accuracy of color matching for RGB and HSV color models. The only significant effect was improved accuracy due to increased visual feedback. Using color groups as a within-subjects variab ...

Keywords: HSV, RGB, color model, color selection, feedback, mental model, user interface

13 A simple method for improved color printing of monitor images

Michael G. Lamming, Warren L. Rhodes

October 1990 **ACM Transactions on Graphics (TOG)**, Volume 9 Issue 4

Full text available: pdf(6.44 MB) Additional Information: full citation, abstract, references, citings, index terms, review

To print image data optimized for display on a color monitor, the red, green, and blue values that drive the display must be transformed into data that control the amounts of cyan, magenta, yellow, and black on the print. The differences in the way display and print images are produced have important consequences for the transformation. Matching the appearance of the monitor and print images may be impossible, and achieving satisfactory results is complex. A method for obtaining pleasing pr ...

14 Color portability—reality in the '90s (panel session)
Efraim Arazi, John D. Meyer, James A. Kasson
August 1990 **ACM SIGGRAPH 90 Panel Proceedings**

Full text available: pdf(13.11 MB) Additional Information: full citation, index terms

15 An analysis of selected computer interchange color spaces
James M. Kasson, Wil Plouffe
October 1992 **ACM Transactions on Graphics (TOG)**, Volume 11 Issue 4

Full text available: pdf(8.77 MB) Additional Information: full citation, abstract, references, citings, index terms

Important standards for device-independent color allow many different color encodings. This freedom obliges users of these standards to choose the color space in which to represent their data. A device-independent interchange color space must exhibit an exact mapping to a colorimetric color representation, ability to encode all visible colors, compact representation for given accuracy, and low computational cost for transforms to and from device-dependent spaces. The performance of CIE 1931 ...

Keywords: CIE 1931 XYZ, CIELAB, CIELUV, SMPTE-C RGB, YCbCr, YES, color, color models, color spaces, device-independent color, quantization

16 Modeling pigmented materials for realistic image synthesis
Chet S. Haase, Gary W. Meyer
October 1992 **ACM Transactions on Graphics (TOG)**, Volume 11 Issue 4

Full text available: pdf(9.55 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article discusses and applies the Kubelka-Munk theory of pigment mixing to computer graphics in order to facilitate improved image synthesis. The theories of additive and subtractive color mixing are discussed and are shown to be insufficient for pigmented materials. The Kubelka–Munk theory of pigment mixing is developed and the relevant equations are derived. Pigment mixing experiments are performed and the results are displayed on color television monitors. A paint program that ...

Keywords: color matching, color science, color selection, illumination modeling, pigment mixing

17 Do color models really make a difference?
Sarah Douglas, Ted Kirkpatrick
April 1996 **Proceedings of the SIGCHI conference on Human factors in computing systems: common ground**

Full text available: pdf(859.33 KB) html(32.23 KB) Additional Information: full citation, references, citings, index terms

Keywords: HSV, RGB, color models, color selection, user interfaces

18 An inexpensive scheme for calibration of a colour monitor in terms of CIE standard coordinates
William B. Cowan
July 1983 **ACM SIGGRAPH Computer Graphics , Proceedings of the 10th annual conference on Computer graphics and interactive techniques**, Volume 17 Issue 3

Full text available: pdf(586.85 KB) Additional Information: full citation, abstract, references, citings, index terms

The Commission Internationale d'Eclairage system of colorimetry is a method of measuring colours that has been standardized, and is widely used by industries involved with colour.

Knowing the CIE coordinates of a colour allows it to be reproduced easily and exactly in many different media. For this reason graphics installations which utilize colour extensively ought to have the capability of knowing the CIE coordinates of displayed colours, and of displaying colours of given CIE coordinates ...

Keywords: colorimetry, colour calibration, colour science, computer graphics

19 Drawing: Example-based composite sketching of human portraits

Hong Chen, Ziqiang Liu, Chuck Rose, Yingqing Xu, Heung-Yeung Shum, David Salesin
June 2004 **Proceedings of the 3rd international symposium on Non-photorealistic animation and rendering**

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references

Creating a portrait in the style of a particular artistic tradition or a particular artist is a difficult problem. Elusive to codify algorithmically, the nebulous qualities which combine to form artwork are often well captured using example-based approaches. These methods place the artist in the process, often during system training, in the hope that their talents may be tapped.Example based methods do not make this problem easy, however. Examples are precious, so training sets are small, reduci ...

Keywords: Non Photorealistic Rendering, computer vision

20 Color quantization by dynamic programming and principal analysis

Xiaolin Wu
October 1992 **ACM Transactions on Graphics (TOG)**, Volume 11 Issue 4

Full text available: pdf(9.47 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Color quantization is a process of choosing a set of K representative colors to approximate the N colors of an image, K < N, such that the resulting K-color image looks as much like the original N-color image as possible. This is an optimization problem known to be NP-complete in K. However, this paper shows that by ordering the N colors along their principal axis and pa ...

Keywords: algorithm analysis, clustering, color quantization, dynamic programming, principal analysis

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1 Color consistency for digital multi-projector stereo display systems: the HEyeWall and the Digital CAVE

W. Kresse, D. Reiners, C. Knöpfle

May 2003 **Proceedings of the workshop on Virtual environments 2003 EGVE '03**

Full text available: pdf(16.19 MB) Additional Information: full citation, abstract, references, index terms

Digital projectors have a significant advantage over CRTs for IPT setups: brightness. But they also have a number of disadvantages, one of which is color consistency. This problem is exacerbated when using the Infitec method for stereo separation, which in itself has some strong advantages for CAVE and tiled wall setups. In this paper we will describe a method for color and brightness correction of multi-projector display systems. The method itself is used in two new projection systems, which ar ...

2 Reproducing color images as duotones

Joanna L. Power, Brad S. West, Eric J. Stollnitz, David H. Salesin

August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**

Full text available: pdf(2.74 MB) Additional Information: full citation, references, citings, index terms

Keywords: Neugebauer model, color printing, color reproduction, duotone, gamut mapping

3 Reproducing color images using custom inks

Eric J. Stollnitz, Victor Ostromoukhov, David H. Salesin

July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(217.32 KB) Additional Information: full citation, references, citings, index terms

Keywords: Kubelka-Munk model, Neugebauer model, color printing, color reproduction, gamut mapping, ink selection, separations

4 Color gamut matching for tiled display walls

Grant Wallace, Han Chen, Kai Li

May 2003 **Proceedings of the workshop on Virtual environments 2003 EGVE '03**

Full text available: pdf(678.72 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a non-parametric full-gamut color matching algorithm. Color matching

is important for the seamless appearance of tiled displays. In particular we address the case where the tiled display is composed of different types of projectors or DLP projectors with white enhancement. White enhancement produces a non-additive color space that is difficult to model. We perform our calibration using an inexpensive colorimeter as opposed to a highly accurate spectroradiometer. Our results s ...

5 Perceptual photometric seamlessness in projection-based tiled displays

Aditi Majumder, Rick Stevens

January 2005 **ACM Transactions on Graphics (TOG)**, Volume 24 Issue 1

Full text available: pdf(326.11 KB) Additional Information: full citation, abstract, references, index terms

Arguably, the most vexing problem remaining for multi-projector displays is that of photometric (brightness) seamlessness within and across different projectors. Researchers have strived for strict photometric uniformity that achieves identical response at every pixel of the display. However, this goal typically results in displays with severely compressed dynamic range and poor image quality.

In this article, we show that strict photometric uniformity is not a requireme ...

Keywords: Projection-based displays, color calibration, tiled displays

6 A model of visual adaptation for realistic image synthesis

James A. Ferwerda, Sumanta N. Pattanaik, Peter Shirley, Donald P. Greenberg

August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**

Full text available: pdf(469.77 KB) Additional Information: full citation, references, citings, index terms

Keywords: adaptation, realistic image synthesis, vision, visual perception

7 The application of scene synthesis techniques to the display of multidimensional image data

Philip K. Robertson, John F. O'Callaghan

October 1985 **ACM Transactions on Graphics (TOG)**, Volume 4 Issue 4

Full text available: pdf(4.42 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Superimposition of two image data sets allows the spatial distribution of one to be directly related to that of the other. If the two data sets have different spatial structures, the composite image is generally confusing and difficult to interpret. A method of representing image data sets in the form of naturally occurring variables in a realistic apparently three-dimensional scene is presented. One data set is represented by the topography of a surface, depicted by shaded-relief methods, ...

8 Drawing: Example-based composite sketching of human portraits

Hong Chen, Ziqiang Liu, Chuck Rose, Yingqing Xu, Heung-Yeung Shum, David Salesin

June 2004 **Proceedings of the 3rd international symposium on Non-photorealistic animation and rendering**

Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, references

Creating a portrait in the style of a particular artistic tradition or a particular artist is a difficult problem. Elusive to codify algorithmically, the nebulous qualities which combine to form artwork are often well captured using example-based approaches. These methods place the artist in the process, often during system training, in the hope that their talents may be tapped.Example based methods do not make this problem easy, however. Examples are precious, so training sets are small, reduci ...

Keywords: Non Photorealistic Rendering, computer vision

9 Optimization: Optimized color gamuts for tiled displays

Marshall Bern, David Eppstein

June 2003 **Proceedings of the nineteenth annual symposium on Computational geometry**

Full text available: pdf(155.36 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider the problem of finding a large color space that can be generated by all units in multi-projector tiled display systems. Viewing the problem geometrically as one of finding a large parallelepiped within the intersection of multiple parallelepipeds, and using colorimetric principles to define a volume-based objective function for comparing feasible solutions, we develop an algorithm for finding the optimal gamut in time $O(n^3)$, where n denotes the number of proj ...

Keywords: additive color, color gamuts, gamut mapping, geometric optimization, high-resolution display systems, quasiconvex programming, tiled displays

10 Understanding BGP misconfiguration

Ratul Mahajan, David Wetherall, Tom Anderson

August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications**, Volume 32 Issue 4

Full text available: pdf(312.33 KB) Additional Information: full citation, abstract, references, citings, index terms

It is well-known that simple, accidental BGP configuration errors can disrupt Internet connectivity. Yet little is known about the frequency of misconfiguration or its causes, except for the few spectacular incidents of widespread outages. In this paper, we present the first quantitative study of BGP misconfiguration. Over a three week period, we analyzed routing table advertisements from 23 vantage points across the Internet backbone to detect incidents of misconfiguration. For each incident we ...

11 Pareto-optimal formulations for cost versus colorimetric accuracy trade-offs in printer color management

D. J. Littlewood, P. A. Drakopoulos, G. Subbarayan

April 2002 **ACM Transactions on Graphics (TOG)**, Volume 21 Issue 2

Full text available: pdf(9.84 MB) Additional Information: full citation, abstract, references, index terms

Color management for the printing of digital images is a challenging task, due primarily to nonlinear ink-mixing behavior and the presence of redundant solutions for print devices with more than three inks. Algorithms for the conversion of image data to printer-specific format are typically designed to achieve a single predetermined rendering intent, such as colorimetric accuracy. In the present paper we present two CIELAB to CMYK color conversion schemes based on a general Pareto-optimal formul ...

Keywords: Artificial Neural Networks, CMYK, Color Conversion, Color Fidelity, Color Management, Color Matching, Color Printing, Color Space Transformation, Optimization, Pareto-optimization, Tetrahedral Interpolation

12 Anti-aliasing in topological color spaces

Kenneth Turkowski

August 1986 **ACM SIGGRAPH Computer Graphics , Proceedings of the 13th annual conference on Computer graphics and interactive techniques**, Volume 20 Issue 4

Full text available: pdf(5.19 MB) Additional Information: full citation, abstract, references, index terms

The power of a color space to perform well in interpolation problems such as anti-aliasing and smooth-shading is dependent on the topology of the color space as well as the number of elements it contains.We develop the *Major-minor* color space, which has a topology and representation that lends itself to simple anti-aliasing computations between elements of an

arbitrary set of colors in an inexpensive frame store.

13 Using photographic quality images in desktop applications (panel session)
Alain Rossmann, Dan Putman, Michael Bourgoin, Greg Millar
August 1990 **ACM SIGGRAPH 90 Panel Proceedings**

Full text available: pdf(3.21 MB) Additional Information: full citation, index terms

14 Colour, rendering and tone-mapping: Picture perfect *RGB* rendering using spectral prefiltering and sharp color primaries
Greg Ward, Elena Eydelberg-Vileshin
July 2002 **Proceedings of the 13th Eurographics workshop on Rendering EGRW '02**

Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, citings, index terms

Accurate color rendering requires the consideration of many samples over the visible spectrum, and advanced rendering tools developed by the research community offer multispectral sampling towards this goal. However, for practical reasons including efficiency, white balance, and data demands, most commercial rendering packages still employ a naive *RGB* model in their lighting calculations. This results in colors that are often qualitatively different from the correct ones. In this paper, w ...

15 Visual communication: An invitation to discuss computer depiction
Frédo Durand
June 2002 **Proceedings of the 2nd international symposium on Non-photorealistic animation and rendering**

Full text available: pdf(401.53 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper draws from art history and perception to place computer depiction in the broader context of picture production. It highlights the often underestimated complexity of the interactions between features in the picture and features of the represented scene. Depiction is not always a unidirectional projection from a 3D scene to a 2D picture, but involves much feedback and influence from the picture space to the object space. Depiction can be seen as a pre-existing 3D reality projected onto ...

Keywords: computer depiction, interaction, non-photorealistic rendering, perception, visual arts

16 MUDD: a multi-dimensional data generator
John M. Stephens, Meikel Poess
January 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the fourth international workshop on Software and performance**, Volume 29 Issue 1

Full text available: pdf(687.99 KB) Additional Information: full citation, abstract, references, index terms

Today's business intelligence systems consist of hundreds of processors with disk subsystems able to handle multiple Giga-bytes of IO-bandwidth. These systems usually contain terabytes of data. Evaluating database system performance of such systems often requires generating synthetic data with well defined statistical properties. To simulate different scenarios, it is important to vary statistical properties including row counts of tables. Foremost, in order to analyze large scale systems, data ...

Keywords: TPC-DS, decision support, performance analysis

17 Status report of the graphic standards planning committee
Computer Graphics staff
August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Full text available: pdf(15.01 MB) Additional Information: full citation, references, citings

18 A low-cost interactive computer-driven full-color raster-scan display system
C. Wissenburgh, R. J. H. Janse
December 1981 **ACM SIGGRAPH Computer Graphics**, Volume 15 Issue 4
Full text available: pdf(373.10 KB) Additional Information: full citation

19 Adaptively sampled distance fields: a general representation of shape for computer graphics
Sarah F. Frisken, Ronald N. Perry, Alyn P. Rockwood, Thouis R. Jones
July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**
Full text available: pdf(476.42 KB) Additional Information: full citation, abstract, references, citings, index terms

Adaptively Sampled Distance Fields (ADFs) are a unifying representation of shape that integrate numerous concepts in computer graphics including the representation of geometry and volume data and a broad range of processing operations such as rendering, sculpting, level-of-detail management, surface offsetting, collision detection, and color gamut correction. Its structure is uncomplicated and direct, but is especially effective for quality reconstruction of complex shapes, e.g., artistic a ...

Keywords: carving, distance fields, graphics, implicit surfaces, level of detail, rendering, volume modeling, volume rendering

20 A framework for realistic image synthesis
Donald P. Greenberg, Kenneth E. Torrance, Peter Shirley, James Arvo, Eric Lafortune, James A. Ferwerda, Bruce Walter, Ben Trumbore, Sumanta Pattanaik, Sing-Choong Foo
August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**
Full text available: pdf(28.94 MB) Additional Information: full citation, references, citings, index terms

Keywords: light reflection, perception, realistic image synthesis

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8 Anti-aliasing in topological color spaces

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9 Data base directions: the next steps

John L. Berg

November 1976 **ACM SIGMOD Record , ACM SIGMIS Database**, Volume 8 , 8 Issue 4 , 2

Full text available: pdf(9.95 MB) Additional Information: full citation, abstract

What information about data base technology does a manager need to make prudent decisions about using this new technology? To provide this information the National Bureau of Standards and the Association for Computing Machinery established a workshop of approximately 80 experts in five major subject areas. The five subject areas were auditing, evolving technology, government regulations, standards, and user experience. Each area prepared a report contained in these proceedings. The proceedings p ...

Keywords: DBMS, auditing, cost/benefit analysis, data base, data base management, government regulation, management objectives, privacy, security, standards, technology assessment, user experience

10 A model of visual adaptation for realistic image synthesis

James A. Ferwerda, Sumanta N. Pattanaik, Peter Shirley, Donald P. Greenberg

August 1996 **Proceedings of the 23rd annual conference on Computer graphics and interactive techniques**

Full text available: pdf(469.77 KB) Additional Information: full citation, references, citings, index terms

Keywords: adaptation, realistic image synthesis, vision, visual perception

11 Digital publication (panel session): status, opportunities and problems

Dick Phillips, Michael Lesk, Michael Hawley, Andries van Dam, Richard J. Beach

August 1990 **ACM SIGGRAPH 90 Panel Proceedings**

Full text available: pdf(4.39 MB) Additional Information: full citation, index terms

12 Adaptively sampled distance fields: a general representation of shape for computer graphics

Sarah F. Frisken, Ronald N. Perry, Alyn P. Rockwood, Thouis R. Jones

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Keywords: carving, distance fields, graphics, implicit surfaces, level of detail, rendering, volume modeling, volume rendering

13 A case study of verification, validation, and accreditation for advanced distributed simulation

Ernest H. Page, Bradford S. Canova, John A. Tufarolo

July 1997 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 7 Issue 3

Full text available: pdf(501.51 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The techniques and methodologies for verification and validation of software-based systems

have arguably realized their greatest utility within the context of simulation. Advanced Distributed Simulation (ADS), a major initiative within the defense modeling and simulation community, presents a variety of challenges to the classical approaches. A case study of the development process and concomitant verification and validation activities for the Joint Training Confederation (JTC) is presented ...

Keywords: IDEF modeling, advanced distributed simulation, aggregate level simulation protocol, life cycle, validation and accreditation, verification, wargame

14 Seesion VIII - industrial experiences with computer-supported groups: Computer teleconferencing: experience at Hewlett-Packard

Tony Fanning, Bert Raphael

December 1986 **Proceedings of the 1986 ACM conference on Computer-supported cooperative work**

Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings

As part of a thrust to improve communication and collaboration among geographically separated groups of engineers, Hewlett-Packard in 1984 investigated computer teleconferencing. Most of that year was devoted to selection, acquisition, and limited pilot use of one such system (CONFER II), which has since been made widely available in the company. Today 1800 HP employees have registered to use the system. Hundreds of people from 15 countries on five continents sign on daily to participate in more ...

15 Information agents for automated browsing

Chanda Dharap, Martin Freeman

November 1996 **Proceedings of the fifth international conference on Information and knowledge management**

Full text available: pdf(1.12 MB) Additional Information: full citation, references, index terms

16 Understanding the limitations of causally and totally ordered communication

David R. Cheriton, Dale Skeen

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles**, Volume 27 Issue 5

Full text available: pdf(1.71 MB) Additional Information: full citation, abstract, references, citings, index terms

Causally and totally ordered communication support (CATOCS) has been proposed as important to provide as part of the basic building blocks for constructing reliable distributed systems. In this paper, we identify four major limitations to CATOCS, investigate the applicability of CATOCS to several classes of distributed applications in light of these limitations, and the potential impact of these facilities on communication scalability and robustness. From this investigation, we find limited meri ...

17 History of the TDS medical information system

M. H. Hodge

December 1987 **Proceedings of ACM conference on History of medical informatics**

Full text available: pdf(1.04 MB) Additional Information: full citation, references, index terms

18 Medical information systems: characterization and challenges

Jorge C. G. Ramirez, Lon A. Smith, Lynn L. Peterson

September 1994 **ACM SIGMOD Record**, Volume 23 Issue 3

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, index terms

This paper examines the characteristics and challenges presented by medical databases and medical information systems. It begins with a survey of medical databases/information systems. This is followed by a list of challenges for database management systems generated by the needs of these systems. It concludes with a look at some systems which

address these challenges. In the context of this background information, the database community is asked to consider whether the results of database ...

19 Curriculum and content: The many facets of HCI

Evelyn P. Rozanski, Anne R. Haake

October 2003 **Proceeding of the 4th conference on Information technology curriculum**

Full text available: pdf(213.99 KB) Additional Information: full citation, abstract, references, index terms

In the last ten years HCI, the study and practice of usability, has emerged as a multidisciplinary, multifaceted field. HCI is an essential knowledge area that pervades the computing field and should be included in every computing professional's education. Computing professionals need to create software, and other technologies, so that users will want to use them and will be able to effectively use them. User advocacy distinguishes the Information Technology discipline from the other computing d ...

Keywords: design methods, human-computer interaction, ubiquitous computing, usability, usability engineering

20 Optimization: Optimized color gamuts for tiled displays

Marshall Bern, David Eppstein

June 2003 **Proceedings of the nineteenth annual symposium on Computational geometry**

Full text available: pdf(155.36 KB) Additional Information: full citation, abstract, references, citings, index terms

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Keywords: additive color, color gamuts, gamut mapping, geometric optimization, high-resolution display systems, quasiconvex programming, tiled displays

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IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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☐ **1. DSP solutions run the gamut for color systems**
Trussell, H.J.;
Signal Processing Magazine, IEEE
Volume 10, Issue 2, April 1993 Page(s):8 - 23
AbstractPlus | Full Text: PDF(1348 KB) **IEEE JNL**

☐ **2. Space-dependent color gamut mapping: a variational approach**
Kimmel, R.; Shaked, D.; Elad, M.; Sobel, I.;
Image Processing, IEEE Transactions on
Volume 14, Issue 6, June 2005 Page(s):796 - 803
AbstractPlus | Full Text: PDF(1376 KB) **IEEE JNL**

☐ **3. Improving gamut mapping color constancy**
Finlayson, G.; Hordley, S.;
Image Processing, IEEE Transactions on
Volume 9, Issue 10, Oct. 2000 Page(s):1774 - 1783
AbstractPlus | References | Full Text: PDF(236 KB) **IEEE JNL**

☐ **4. Explosion of multidimensional image histograms**
Mlsna, P.A.; Rodriguez, J.J.;
Image Processing, 1994. Proceedings. ICIP-94., IEEE International Conference
Volume 3, 13-16 Nov. 1994 Page(s):958 - 962 vol.3
AbstractPlus | Full Text: PDF(480 KB) **IEEE CNF**

☐ **5. Cascade-CMAC neural network applications on the color scanner to printer calibration**
King-Lung Huang; Shu-Cheng Hsieh; Hsin-Chia Fu;
Neural Networks,1997., International Conference on
Volume 1, 9-12 June 1997 Page(s):10 - 15 vol.1
AbstractPlus | Full Text: PDF(472 KB) **IEEE CNF**

☐ **6. Natural scene-illuminant estimation using the sensor correlation**
Tominaga, S.; Wandell, B.A.;
Proceedings of the IEEE
Volume 90, Issue 1, Jan. 2002 Page(s):42 - 56
AbstractPlus | References | Full Text: PDF(477 KB) **IEEE JNL**

☐ **7. AMLCD modeling and display performance at Image Quest Technologies**
Hansen, G.; Herke, R.;
Digital Avionics Systems Conference, 1996., 15th AIAA/IEEE
27-31 Oct. 1996 Page(s):239 - 243
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